

~~RESTRICTED~~

RECORD COPY



RECORD COPY

RECORD COPY

DOCUMENTS BRANCH  
PERIODICAL ABSTRACTS

Number 5

23 Jun 1947

RECORD COPY

Prepared By

Documents Branch

CENTRAL INTELLIGENCE GROUP  
2430 E Street, N. W.  
Washington, D. C.

DOCUMENT NO. 05  
NO CHANGE IN CLASS ☐  
☐ DECLASSIFIED  
CLASS. CHANGED TO: TS 1 0  
NEXT REVIEW DATE: \_\_\_\_\_  
AUTH: HR 70-2  
DATE 8 SEP 1980 REVIEWER: 010373

~~RESTRICTED~~

**WARNING**

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U.S.C., 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO ANY UNAUTHORIZED PERSON IS PROHIBITED WITHOUT SPECIAL AUTHORITY FROM THE DIRECTOR OF CENTRAL INTELLIGENCE.

~~RESTRICTED~~

C I G

Documents Branch

P E R I O D I C A L   A B S T R A C T S

Number 5

23 Jun 1947

Prepared by

Documents Branch  
CENTRAL INTELLIGENCE GROUP  
2430 E Street, N. W.  
Washington, D. C.

~~RESTRICTED~~

## RESTRICTED

This publication contains titles and abstracts of Japanese periodicals. Each periodical is abstracted as a whole and its issues summarized with a listing of volume and issue or report numbers and the dates of publication. Each periodical and each title and abstract has also been assigned an Index Number at the right in accordance with the Basic Intelligence Directive. Due to limitations of personnel and volume of material, it has been found necessary to require local agencies interested in any item covered by these abstracts to first send a representative to Sixth floor, 1340 L Street, N. W., in order to preview the article prior to formal request for further translation. Formal requests should be made through the Office of Collection and Dissemination, CIG, 2430 E Street, N. W., Washington, D. C.

Distribution List

State Dept (IAD)	4
Library of Congress	1
Dept of Commerce	
(Publications Board)	2
AID	1
CINCFE	10
OCCmLC	1
OQMG	1
OCSigO	3
OCE	2
OCO	1
OCT	2
AAF	21
AGF	10
ICAF	1
NWC	1
AFSC	1
ID	5
ONI	54
Manhattan Engr Dist	1
CIG	3
DB	60
Total	185

RESTRICTED

RESTRICTED

C I G

Documents Branch

P E R I O D I C A L   E X T R A C T S

\* \* \*

TEIKOKU GAKUSHIIN KIJU

"Proceedings of the Imperial Academy" / Japan

5706.

Records of general meetings of the Academy published ten times annually. Scientific papers contributed by prominent Japanese scientists.

The following are abstracts of articles from English-German-French language issues of Jan 1940 to Jan 1945, inclusive. Abstracts are grouped by scientific subject as listed in the table of contents.

TABLE OF CONTENTS

	Page
Astronomy	2
Chemistry	2
Mathematics	7
Medicine	18
Physics	19

- 1 -

RESTRICTED

RESTRICTED

ASTRONOMY

Jul 1942

"On the Analysis of Z for the Three Stations, Mizusawa, Carloforte and Ukiah during the Period 1900, 0 - 1922, 7" by KIMURA Hisashi. 7 pp. 8700.

CHEMISTRY

Jun 1940

"Synthesis of Formyl-phenacetyl-tropein" by ASAHINA Y and NOGAMI H. German. 2 pp. 4408.0105

Jul 1940

"Synthesis of Xanthone" by ASAHINA Y and TANASE Y. German. 2 pp. 4408.0105

Feb 1941

"A New Pentamethine-cyanine Synthesis Caused by the Decomposition of an Acid Anhydride" by KIMURA Tsuneyuki. 2 pp. 4408.0105

Apr 1941

"Studies on the Synthesis of Dibenzoindolizine-Derivatives (I): A Synthesis of 4', 5': 4", 5" -Tetramethoxy -3, 8, 4, 7-Tetrahydro-(1', 2":5, 6-Dibenzoindolizine)" by SUGASAWA Shigehiko, KODAMA Kunimi and AKATSUKA Kenichi. 4 pp. 4408.0105

Jul 1941

"Synthesis of 1,5-Naphthyridin Derivatives" by MIYAKI K. German. 3 pp. 4408.0105

"Activity of Yeast Nucleic Acid as Vitamin L<sub>2</sub>" by NAKAHARA Waro, INUKAI Fumito and UGAMI Saburo. 3 pp. 4408.0105

"On the Color Reaction of Fluoren, Inden etc" by SASAKI T. German. 1 pp. 4408.0105

Oct 1941

"A Study of Colloidal Catalysis by Thermal Analysis of Reaction Velocity: Composition of Platinum Hydrosol and Its Catalytic Action" by SUITO Eiichi. 6 pp. 4408.0105

RESTRICTED

"On 7-Hydroxy-dihydrocodeine, 7-Hydroxy-dihydro-thebainol and the Corresponding ( + ) -Derivatives from Sinomenine" by GOTO Kakuji and ARAI Tatsuo. 2 pp. 4408.0105

Nov 1941

"Studies on the Synthesis of Dibenzoindolizine-Derivatives (II)" by SUGASAWA Shigehiko and KODAMA Kunimi. 3 pp. 4408.0105  
A synthesis of 4', 5'-Dimethyl-1, 8, 4, 5-Tetrahydro-(1', 2':2, 3; 1", 2": 6,7-Dibenzoindolizine).

Dec 1941

"Studies on the Synthesis of Emetine and Its Analogues (III)" by SUGASAWA Shigehiko and SAKURAI Kiichi. 5 pp. 4408.0105  
A Synthesis of rac-C-nor-Emetine (Fynan).

Feb 1942

"The Properties of Hydroxy Naphthoquinones" by KURODA Chika. 5 pp. 4408.0105

Mar 1942

"On the Alkaline Decomposition of Codeinone Methiodide and of 1-Bromosinomeinone Methiodide" by GOTO Kakuji. 4 pp. 4408.0105

Apr 1942

"Synthesis of r-Kynurenin" by KOTAKE M and SAKAN T. German. 3 pp. 4408.0105

"New Synthesis of the Pyrimidine Component in Vitamin B<sub>1</sub>" by OCHIAI E, YANAI M, and NAITO T. German. 3 pp. 4408.0105

Jun 1942

"Studies on the Synthesis of Dibenzoindolizine-Derivatives (III)" by SUGASAWA Shigehiko and OKI Sadao. 3 pp. 4408.0105

"Studies on the Synthesis of Dibenzochinolizine-Derivatives (V)" by SUGASAWA Shigehiko and OKI Sadao. 4 pp. 4408.0105

RESTRICTED

Jul 1942

"An X-Ray Study of Mixtures of Long-Chain Compounds" by YOSHIDA Sanae. 5 pp. 4408.0105

"On a Weak Ergodic Theory" by KAWADA Y. German. 7 pp. 4408.0105

Oct 1942

"Adenylthiomethylpentose as a Form of Vitamin L<sub>2</sub>" by NAKAHARA Waro, INUKAI Fumito, and UGAMI Saburo. 2 pp. 4408.0105

Nov 1942

"Synthesis of  $\beta$ -Glycerophosphor Acid - Chotinessers and Their Haemolytic Action" by OBATA Y. German. 6 pp. 4408.0105

"A New Nitration of Pyridine Nuclei" by OCHIAI E. and ISHIKAWA M. German. 4 pp. 4408.0105

"Studies on the Synthesis of Dibenzoindolizine-Derivatives (IV)" by SUGASAWA Shigehiko and KODAMA Kunimi. 4 pp. 4408.0105

Dec 1942

"Studies on the Synthesis of Dibenzoquinolizine-Derivatives (VI)" by SUGASAWA Shigehiko and SUGIMOTO Norio. 4 pp. 4408.0105

"A Synthesis of 4', 5' -Dimethoxy-1, 2, 5, 6, 7, 8-Hexahydro-(1', 2': 3, 4-Benzochinolizine)" by SUGASAWA Shigehiko, SUGIMOTO Norio and NAKATA Toyochi. 3 pp. 4408.0105

Apr 1943

"On the Growth of Crystals in the Presence of Colloids" by KOIDE H and NAKAMURA T. 3 pp. 4408.0105

Jul 1943

"The Formation of the Reaction Nuclei in the Reduction of Cupric Oxide by Hydrogen" by HASEGAWA Shigeo. 5 pp. 4408.0105

Oct 1943

"The Chemical Composition of NUPHARIDINS" by KOTAKE, KAWANAGA, KUBOTA and HAGITANI. Nupharidins is an alkaloid from Nuphar Japonicus isolated by Dr J Arijima. German. 4 pp. 4408.0105

- 4 -

RESTRICTED



RESTRICTED

Nov 1943

"Studies on the Synthesis of Dibenzoindolizine-Derivatives (V)" by SUGASAWA Shigehiko and OKI Sadao  
A Syn of 4', 5'-1, 2, 3, 6, 7, 3'', 4'', 5'',  
6''-Deca-hydro-(1'', 2'', 2, 3; 1', 2': 4,5  
-Dibenzoindolizine), 4 pp.

4408.0105

"A Study of the Aromatic Tertiary Amin-N-oxyd Groups" by OCHIAI E, NAITO T and KATADA M.  
German. 5 pp.

4408.0105

Jan 1944

"The Studies on the Derivatives of Naphthoquinone Part VIII" by KURODA Chika and KOYASU Kisako  
The pigments from the sea uruchines III. 3 pp.

4408.0105

"The Studies on the Derivatives of Naphthogquinone, Part VII" by KURODA Chika  
Synthetic products. 3 pp.

4408.0105

Feb 1944

"On the Ergodicity of a Certain Stationary Process" by ITO Kiyoshi. 2 pp.

4408.0105

Mar 1944

"Purified Proteases" by MINAGAWA Toyosaku  
I. Papain Protease: A newly-devised method of purification and a new method for the measurement of proteolytic power. Physical and chemical properties of purified protease. The action of proteolytic power. 6 pp.

4408.0105

"Purified Proteases" by MINAGAWA Toyosaku  
II. Papain Protease: spectrographic studies on the constitution of the purified preparation. Its composition and constitution. 7 pp.

4408.0105

May 1944

"New Color Reactions of Amino Acids" by INUKAI F, TSURUMI M and SAKAI S. German. 1 p.

4408.0105

"Purified Proteases" by MINAGAWA Toyosaku  
III. Pancreatic protease of trypsin: its purification, properties, composition and constitution. 4 pp.

4408.0105

RESTRICTED

"Purified Proteases" by MINAGAWA Toyosaku  
IV. Mould protease or mould tryptase: its purification,  
properties, composition and constitution. 4 pp. 4408.0105

"Purified Proteases" by MINAGAWA Toyosaku  
V. Gastric protease of pepsin: its purification,  
properties, composition and constitution. 6 pp. 4408.0105

Jun 1944

"Studies on the Synthesis of Emetine and Its Analogues (V)"  
by SUGAWASA Shigehiko and TOMIMATSU Yoshio.  
Synthesis of di-isoquinolyl-spiro-dipiperidine-  
derivative. 3 pp. 4408.0105

"Studies on the Synthesis of Emetine and Its Analogue  
(IV)" by SUGAWASA Shigehiko and SHIGEHARA Hajime.  
An improved method for the synthesis of rac-C-nor-  
emetine-pyran. 3 pp. 4408.0105

Nov 1944

"On Hopf's Ergodic Theorem" by TSUJI Masatsugu. 8 pp. 4408.0105

Dec 1944

"Chemistry of the Aqueous Inclusion in Nephelinebasalt from  
Nagahama, Hamada-shi, Shimane Prefecture (I)" by SUGAWARA  
Ken, OANA Shinya and KOYAMA Tadashiro. 4 pp. 4408.0105

Jan 1945

"Studies on the Synthesis of Flavine from Various Metals"  
by SAHASHI Yoshikazu, IWADARE Shoji, AKAMATSU Hiroshi  
and GENDA Hidesaburo. 4 pp.  
Part IV. On the physiological tests on d-araboflavine. 4408.0105

"Studies on the Synthesis of Flavine from Various Materials"  
by SAHASHI Yoshikazu, AKAMATSU Hiroshi and INAGAKI Homare  
Part II. On the application of electrolytic reduction  
to synthesis of d-araboflavine. 3 pp. 4408.0105

"Studies on the Synthesis of Flavine from Various Materials"  
by SAHASHI Yoshikazu, AKAMATSU Hiroshi and GENDA Hidesaburo,  
Part I. Synthesis of d-araboflavine from p-nitrotoluene.  
9 pp. 4408.0105

"Purified Amylosyntheases" by MINAGAWA Toyosaku  
Potato, rice, glutinous rice and yeast amylosyntheases.  
Purification, action, properties and constitutions.  
8 pp. 4408.0105

RESTRICTED

RESTRICTED

- "Purified Pectase" by MINAGAWA Toyosaku  
 II. Its composition, constitution and spectrograph-  
 ical studies. A new amino acid 'Oxyminaline'. 7 pp. 4408.0105
- "Purified Pectase" by MINAGAWA Toyosaku  
 I. Its distribution, purification, action and  
 properties. 4 pp. 4408.0105
- "Studies on the Synthesis of Flavine from Various Metals"  
 by AKAMATSU Hiroshi  
 Part III. On the application of raney-nickel to  
 synthesis of d-araboflavine. 5 pp. 4408.0105

MATHEMATICS

Jan 1941

- "An Abstract Integral, IV" by IZUMI Shinichi. 4 pp. 8700.
- "On Pseudoconvex Domains" by OKA Kiyoshi. 4 pp. 8700.
- "Closure in General Lattices" by NAKAMURA Masahiro. 2 pp. 8700.

Mar 1941

- "Algebras with Anisomorphic Left and Right Ideal Lat-  
 tices" by NAKAYAMA Tadashi. 4 pp. 8700.
- "On the Theorems of Mr Valiron and the Indirectly  
 Critical Transcendental Singularities" by TSUMURA  
 Yoshiro, French. 5 pp. 8700.
- "Boundary Values of Analytic Function" by KAMETANI  
 Shunji. 5 pp. 8700.
- "On Regularly Convex Sets" by YOSHIDA Kosaku and  
 FUKAMIYA Masanori. 4 pp. 8700.

Apr 1941

- "On the Theory of Spaces of Normal Conformal Connection and  
 Conformal Geometry of Riemannian Spaces" by YANO Kentaro  
 and MUTO Yoshio. French. 8 pp. 8700.

May 1941

- "The Exceptional Values of Functions with the Set of  
 Linear Measure Zero, of Essential Singularities" by  
 KAMETANI Shunji. 4 pp. 8700.
- "On Vector Lattices with a Unit" by YOSHIDA Kosaku.  
 4 pp. 8700.

- 7 -

RESTRICTED

RESTRICTED

June 1941

"On a Metric Connection along a Curve in a Special Kawaguchi Space of Order Two" by TONOOKA Keinosuke. 4 pp. 8700.

"A Symmetric Connection in an n-Dimensional Kawaguchi Space" by OKUBO Takeo. 4 pp. 8700.

"Dispersion of Optic Axes in the Orthorhombic Pyroxene Series" by KUNO Hisashi. 6 pp. 8700.

Jul 1941

"Note on Projections in Certain Spaces of Type (B)" by KOMATSUZAKI Hitoshi. French. 3 pp. 8700.

"A Remark on the Theory of General Fuchsian Groups" by MORITA Kiichi. 5 pp. 8700.

"On Axioms of Linear Functions" by TOYODA Koshichi. 7 pp. 8700.

"Vector Lattices and Additive Set Functions" by YOSHIDA Kosaku. 5 pp. 8700.

Oct 1941

"On M. Kunugui's Problem" by TSUMURA Yoshiro. 7 pp. 8700.

"A Generalization of the Theorems of Picard and Nevanlinna on Meromorphic Functions" by KUNUGUI Kinjiro, French. 6 pp. 8700.

"On the Conformal Arc Length" by YANO Kentaro and MUTO Yoshio. 5 pp. 8700.

"On the Behavior of a Meromorphic Function in the Neighborhood of a Transcendental Singularity" by TOKI Yukinari. 5 pp. 8700.

Nov 1941

"Note on the Kronecker Product of Representations of a Group" by OSHIMA Masaru. 3 pp. 8700.

"On the Behavior of an Inverse Function of a Meromorphic Function and Its Transcendental Singular Point" by TSUJI Masatsugu. 4 pp. 8700.

Dec 1941

"On the Principle of the Maximum in the Theory of the Potential" by YOSHIDA Yoichi. 3 pp. 8700.

- 8 -

RESTRICTED

## RESTRICTED

"On Vector Lattices with a Unit, II" by YOSHIDA Kosaku and FUKAMIYA Masanori. 4 pp. 8700.

"On the Generalized Loxodromes in the Conformally Connected Manifold" by YANO Kentaro and MUTO Yoshio. 6 pp. 8700.

"On the Behavior of an Inverse Function of a Meromorphic Function at Its Transcendental Singular Point, II" by TSUJI Masatsugu. 2 pp. 8700.

"On the General Schwarzian Lemma" by SUGAWARA Masao. 6 pp. 8700.

"Analytical Characterization of Displacements in General Poincare Space" by MORITA Kiichi. 6 pp. 8700.

"The Exceptional Values of Functions with the Set of Capacity Zero of Essential Singularities" by KAMETANI Shunji. 5 pp. 8700.

Jan 1942

"A Remark on Kawakami's Extension of Loewner's Lemma" by KAMETANI Shunji. 2 pp. 8700.

"Note on the Lattice-ordered Groups" by NAKAYAMA Tadashi. 4 pp. 8700.

"Note on the Fundamental Domain of a General Fuchsian Group" by SUGAWARA Masao. 2 pp. 8700.

Feb 1942

"On the Structure of Ensembles" by KONDO Motokichi. 8 pp. 8700.

"On Abstract Integral, VII" by IZUMI Shin-ichi. 4 pp. 8700.

"An Abstract Integral, V" by IZUMI Shin-ichi, MATSUYAMA Noboru and ORIHARA Masae. 5 pp. 8700.

"An Abstract Integral, VI" by NAKAMURA Masahiro. 3 pp. 8700.

Mar 1942

"Notes on Banach Space (I): Differentiation of Abstract Functions" by IZUMI Shin-ichi. 4 pp. 8700.

"On Some Properties of Regular Functions in  $|z| < 1$ " by SHIMIZU Tatsujiro. 4 pp. 8700.

"On the Behavior of an Inverse Function of a Meromorphic Function at Its Transcendental Singular Point, III" by TSUJI Masatsugu. 8 pp. 8700.

RESTRICTED

"Note on Banach Spaces (II): An Ergodic Theorem for Abelian Semi-groups" by NAKAMURA Masahiro. 1 p. 8700.

Apr 1942

"On Krull's Conjecture Concerning Completely Integrally-closed Integrity Domains, I" by NAKAYAMA Tadashi. 3 pp. 8700.

"On Green's Lemma" by TSUJI Masatsugu. 3 pp. 8700.

"On a Theorem of F and M Riesz" by TSUJI Masatsugu. 4 pp. 8700.

"On an Extension of Bloch's Theorem" by TSUJI Masatsugu. 2 pp. 8700.

"On the First Theorem in the Theory of Meromorphic Functions" by TSUMURA Yoshiro. 6 pp. 8700.

May 1942

"On Krull's Conjecture Concerning Completely Integrally-closed Integrity Domains, II" by NAKAYAMA Tadashi. 4 pp. 8700.

"On the Curves Developable on Two-dimensional Spheres in the Conformally Connected Manifold" by YANO Kentaro and MUTO Yoshio. 5 pp. 8700.

"On an Extension of Loewner's Theorem" by TSUJI Masatsugu. 2 pp. 8700.

"On the Behavior of a Meromorphic Function in the Neighborhood of a Closed Set of Capacity Zero" by TSUJI Masatsugu. 7 pp. 8700.

Jun 1942

"Note on Banach Spaces (III): A Proof of Tietze-Matsumura's Theorem" by NAKAMURA Masahiro. 2 pp. 8700.

"On the Theory of the Distribution of Values" by KUNUGUI Kinjiro. French. 7 pp. 8700.

Jul 1942

"Note on Banach Spaces (IV): On a Decomposition of Additive Set Functions" by NAKAMURA Masahiro and SUNOUCHI Gen-ichiro. 3 pp. 8700.

"On the Representation of the Vector Lattice" by YOSHIDA Kosaku. 4 pp. 8700.

RESTRICTED

RESTRICTED

Oct 1942

"On the Function Whose Imaginary Part on the Unit Circle Changes Its Sign only Twice" by KAKIYA Soichi. 5 pp. 8700.

"On Cauchy's Integral Theorem" by MINAUMI Unai. 6 pp. 8700.

"Concircular Geometry V, Einstein Spaces" by YANO Kentarô. 6 pp. 8700.

Nov 1942

"An Abstract Integral (X)" by IZUMI Shin-ichi. 5 pp. 8700.

"On the Congruence Relations of Lattices" by FUNAYAMA Nenosuke. 2 pp. 8700.

"On the Distributivity of a Lattice of Lattice-congruences" by FUNAYAMA Nenosuke and NAKAYAMA Tadashi. 2 pp. 8700.

"A Note on Infinite Series" by IZUMI Shin-ichi and SUNOUCHI Gen-ichiro. 3 pp. 8700.

"An Abstract Integral (VIII)" by ORIHARA Masae and SUNOUCHI Gen-ichiro. 4 pp. 8700.

"An Abstract Integral (IX)" by MATSUYAMA Noboru. 4 pp. 8700.

"On the Regular Vector Lattice" by ORIHARA Masae. 5 pp. 8700.

"On the Semi-ordered Ring and Its Application to the Spectral Theorem" by YOSHIDA Kosaku and NAKAYAMA Tadashi. 6 pp. 8700.

Dec 1942

"On Singularities not Directly Critical" by TSUMURA Yoshiro. French. 6 pp. 8700.

"On the Newtonian Capacity and the Linear Measure" by UGAHERI Tadashi. 4 pp. 8700.

"Locally-Bounded Linear Topological Spaces" by AOKI Toshio. 7 pp. 8700.

"On the Distribution of Values" by TSUMURA Yoshiro, French. 5 pp. 8700.

"On the Zeros of the Riemannian Zeta-function" by TSUJI Masatsugu. 4 pp. 8700.

"On Locally-convex Topological Spaces" by MATSUYAMA Noboru. 3 pp. 8700.

RESTRICTED

"On Some Properties of Hausdorff's Measure and the Concept of Capacity in Generalized Potentials" by KAMETANI Shunji. 9 pp. 8700.

Jan 1943

"On the Axioms of the Theory of Lattices" by KOBAYASHI M. 4 pp. 8700.

"On the Uniform Distribution of Values of a Function Mod, I" by TSUJI Masatsugu. 4 pp. 8700.

Feb 1943

"On the Cluster Set of a Meromorphic Function" by TSUJI Masatsugu, 6 pp. 8700.

"On the Extension of M Teichmüller's Theory" by TSUMURA Yoshiro, French. 5 pp. 8700.

Mar 1943

"Some Metrical Theorems on a Set of Points" by TSUJI M. 4 pp. 8700.

"On the Characterization of a Joint Homomorphic Transformation-lattice" by KOMATSU A. 6 pp. 8700.

"Notes on Differentiation" by IZUMI Shinichi and SUNOUCHI Gen-ichiro. 5 pp. 8700.

"Notes on Banach Space (V): Compactness of Function Spaces" and "A Remark on Ergodic Theorems" by IZUMI Shinichi. 6 pp. 8700.

"Notes on Infinite Product Measure Spaces, I" by KAKUTANI S. 4 pp. 8700.

"On the Semi-ordered Ring and Its Application to the Spectral Theorem, II" by YOSHIDA K. and NAKAYAMA T. 4 pp. 8700.

Apr 1943

"On the Duality Theorem of Non-commutative Compact Groups" by IYANAGA S and ABE M. 7 pp. 8700.

"Notes on Banach Space (VI): Abstract Integrals and Linear Operations" by IZUMI Shinichi and SUNOUCHI Gen-ichiro. 5 pp. 8700.

"Notes on Infinite Product Measure Spaces, II" by KAKUTANI S. 5 pp. 8700.



RESTRICTED

"On Parallelism and Concurrence in Riemannian Space" by  
YANO K. French. 9 pp. 8700

May 1943

"Banach Limits and the Cech Compactification of a Countable  
Discrete Set" by NAKAMURA Masahiro and KAKUTANI Shizuo.  
6 pp. 8700.

"On the Idea of Dimension" by KONDO Motokichi. French.  
9 pp. 8700.

"Relation between the Measures  $\lambda(X)$  and  $m^*(X)$ " by  
KAKEYA Soichi, MIBU Masamichi and YONEMURA Hideo. 3 pp. 8700.

"On the Domain of Existence of an Implicit Function  
Defined by an Integral Relation  $G(x,y) = 0$ " by TSUJI  
Masatsugu. 6 pp. 8700.

Jun 1943

"Topological Properties of the Unit Sphere of a Hilbert  
Space" by KAKUTANI Shizuo. 3 pp. 8700.

"On Mathematical Transformation Constants" by KUNUGUI  
Kinjiro. French. 4 pp. 8700.

"On the Riemannian Surface of an Inverse Function of  
a Meromorphic Function in the Neighborhood of a Closed  
Set of Capacity Zero" by TSUJI Masatsugu. 2 pp. 8700.

Jul 1943

"On the Theory of Hypersurfaces in the Path-space of the  
Third Order" by TOMONAGA Yasuro. 7 pp. 8700.

"Normed Rings and Spectral Theorems" by YOSHIDA Kosaku.  
4 pp. 8700.

"On the Fundamental Equations in the Geometry of Sub-  
space" by YANO Kentaro. French. 9 pp. 8700.

"On an Application of the Tensor,  $C_{jk}$ , and the Scalar,  
 $C$ " by YANO Kentaro. French. 6 pp. 8700.

"Normed Ring of a Locally-compact Abelian Group" by  
KODAIRA Kunihiko. 6 pp. 8700.

"On Cardinal Numbers Related with a Compact Abelian  
Group" by KAKUTANI Shizuo. 7 pp. 8700.

- 13 -

RESTRICTED

RESTRICTED

Oct 1943

"Bohr Compactifications of a Locally-compact Abelian Group I"  
by ANZAI Hirotada and KAKUTANI Shizuo. 5 pp. 8700.

"On an Approximation to the Solution of Dirichlet's Problem"  
by INOUE Masao. French. 7 pp. 8700.

"The Exceptional Values of Functions with the Set of Linear-  
measure Zero of Essential Singularities, II" by KAMATANI  
Shunji. 6 pp. 8700.

"On the Representation of Boolean Algebra" by MATSUYAMA  
Noboru. 3 pp. 8700.

"Notes on Banach Space (VII): Compactness of Function  
Spaces" by SUNOUCHI Gen-ichiro. 2 pp. 8700.

"On the Strong Summability of Fourier Series" by SUNOUCHI  
Gen-ichiro. 4 pp. 8700.

"On Analytic Functions in Abstract Spaces" by SHIMODA Isae.  
4 pp. 8700.

"Note on Free Topological Groups" by NAKAYAMA Tadashi. 5 pp. 8700.

"On Non-prolongable Riemannian Surfaces" by TSUJI Masatsugu.  
2 pp. 8700.

"Conformal and Concircular Geometries in Einstein Spaces"  
by YANO Kentaro. 10 pp. 8700.

"Normed Rings and Spectral Theorems, II" by YOSHIDA  
Kosaku. 5 pp. 8700.

Nov 1943

"Bohr Compactification of a Locally-compact Abelian Group II"  
by ANZAI Hirotada and KAKUTANI Shizuo. 7 pp. 8700.

Dec 1943

"On the Variation of a Function of a Conformal Represen-  
tation when the Domain Varies". by KOMATSU Yusaku. French.  
10 pp. 8700.

"On Compact Topological Rings" by ANZAI Hirotada. 9 pp. 8700.

"On Riemannian Metrics and the Element of Volume in Spaces  
of Lie Groups" by ABE Makoto. French. 6 pp. 8700.

RESTRICTED

## RESTRICTED

Jan 1944

"On the Completion by Cuts of Distributive Lattices" by FUNAYAMA Menosuke. 2 pp. 8700.

"A Remark on the Note On Some Properties of Hausdorff's Measure and the Concept of Capacity in Generalized Potentials" by KAMETANI Shunji. 1 p. 8700.

"Positive Definite Integral Quadratic Forms and Generalized Potentials" by KAMETANI Shunji. 8 pp. 8700.

"On Conformal Mapping of an Infinitely Multiple-connected Domain" by TSUJI Masatsugu. 4 pp. 8700.

Feb 1944

"Projective Parameters in Projective and Conformal Geometries" by YANO Kentaro. 9 pp. 8700.

"On the Reducibility of a Holonomic Group, I, Spaces of Affine Connection" by ABE Makoto. French. 5 pp. 8700.

"On Group Rings of Topological Groups" by IWASAWA Kenkichi. 4 pp. 8700.

"Notes on Divergent Series and Integrals" by K KUTANI Shizuo. 3 pp. 8700.

"Normed Rings and Spectral Theorems, III" by YOSHIDA Kosaku. 3 pp. 8700.

Mar 1944

"Construction of a Non-separable Extension of the Lebesgue Measure Space" by KAKUTANI Shizuo. 5 pp. 8700.

"Parallel Tangent Deformation, Concircular Transformation and Concurrent Vector Field" by YANO Kentaro and ADACHI Juji. 5 pp. 8700.

"Modified Curtius-degradations" by SUGASAWA Shigehiko and SAITO Norio. 4 pp. 8700.

Apr 1944

"On the Reducibility of a Holonomic Group, II, Riemannian Spaces" by ABE Makoto. 6 pp. 8700.

"Notes on Fourier Series (XIII), Remarks on the Strong Summability of Fourier Series" by KAWATA Tatsuo. 4 pp. 8700.

"Notes on the Fourier Series (XII), On Fourier Constants" by KAWATA Tatsuo. 5 pp. 8700.

RESTRICTED

"On Multivalent Functions" by KOBORI Akira. French. 2 pp. 8700.

"Projective Parameters on Paths in  $D$ , van Dantzig's Projective Space" by YANO Kentaro. 6 pp. 8700.

"A Screw Line in Hilbert Space and Its Application to the Probability Theory" by ITO Kiyoshi. 7 pp. 8700.

"Normed Rings and Spectral Theorems, IV" by YOSHIDA Kosaku. 3 pp. 8700.

May 1944

"On Quasi-evaluations of Compact Rings" by OTOBE Yoshikazu. 5 pp. 8700.

"Note on Locally-compact Simple Rings" by OTOBE Yoshikazu. 1 pp. 8700.

"On the Strong Summability of Series of Orthogonal Functions" by SUNOUCHI Gen-ichiro. 6 pp. 8700.

"Normed Rings and Spectral Theorems, V" by YOSHIDA Kosaku. 5 pp. 8700.

Jun 1944

"A Generalized Limit" by IWAMURA Tsurane. 2 pp. 8700.

"The Distribution of Grouped Moments in Large Samples" by KAWATA Tatsuo. 3 pp. 8700.

"On the Torse-forming Directions of Riemannian Spaces" by YANO Kentaro. 6 pp. 8700.

Jul 1944

"Equivalence of Two Topologies of Abelian Groups" by YOSHIDA Kosaku and IWAMURA Tsurane. 3 pp. 8700.

"On Conic Sections in Spaces of Affine or Projective Connection, I" by YANO Kentaro and TAKANO Kazuo. French. 8 pp. 8700.

"On Conic Sections in Spaces of Affine or Projective Connection, II" by YANO Kentaro and TAKANO Kazuo. French. 7 pp. 8700.

"On Rings of Operators, I" by ORIHARA Masae. French. 7 pp. 8700.

## RESTRICTED

- "Relations between Measure and Topology in some Boolean Space" by MIBU Yoshimichi. 5 pp. 8700.
- "Rings of Operators and Dimensions, I" by KONDO Motokichi. French. 10 pp. 8700.
- "On the Reducibility of Rings of Operators" by KONDO Motokichi. French. 7 pp. 8700.
- "On the Direct Sum of Linear Spaces" by KONDO Motokichi. French. 7 pp. 8700.
- "The Form of Projective Functions, I" by KONDO Motokichi. French. 5 pp. 8700.
- Oct 1944
- "On the Reducibility of the Differential Equations in the n-Body Problem" by HAGIHARA Yusuke. 4 pp. 8700.
- "On Biorthogonal Systems in Banach Spaces" by HANAI Shichiro. 3 pp. 8700.
- "Stochastic Integral" by ITO Kiyoshi. 6 pp. 8700.
- "Free Topological Groups and Infinite Direct Topological Groups" by KAKUTANI Shizuo. 4 pp. 8700.
- "Several Representations of Analytical Functions and Their Applications to Conformal Transformations" by KOMATSU Yusaku. German. 6 pp. 8700.
- Oct 1944
- "The Infinite Kronecker Product of Linear Spaces" by KONDO Motokichi. French. 11 pp. 8700.
- "A Method of Operation in the Theory of Natural Numbers" by KONDO Motokichi. French. 5 pp. 8700.
- "On Rings of Operators, II" by ORIHARA Masae. French. 7 pp. 8700.
- "On the Diophantine Analysis of Algebraic Functions" by WADA Yoshio. 3 pp. 8700.
- "On Spaces of Normal Conformal Connection whose Holonomic Groups Fix a Sphere at a Certain Number of Dimension" by YANO Kentaro and SASAKI Shigeo. French. 11 pp. 8700.
- "Normed Rings and Spectral Theorems, VI" by YOSHIDA Kosaku. 4 pp. 8700.

RESTRICTED

Nov 1944

- "On Spaces of Affine Connection which May Represent the Projective Spaces of Paths" by YANO Kentaro. French. 9 pp. 8700.
- "On the Representation of Functions by Fourier Integrals" by YOSHIDA Kosaku. 6 pp. 8700.
- "On Brownian Motions in n-Space" by KAKUTANI Shizuo. 5 pp. 8700.
- "Mean Concentration Function and the Law of Large Numbers" by KUNISAWA Kiyomi. 4 pp. 8700.
- "On Baire Functions on Infinite Product Spaces" by MIBU Yoshimichi. 3 pp. 8700.
- "On Simultaneous Extension of Continuous Functions" by YOSHIKAWA Hisa-aki. 2 pp. 8700.

Dec 1944

- "Subprojective Transformations, Spaces and Collineations" by YANO Kentaro. 5 pp. 8700.
- "Rings of Operators and Dimensions, II" by KONDO Motokichi. French. 5 pp. 8700.
- "Two-dimensional Brownian Motion and Harmonic Functions" by KAKUTANI Shizuo. 9 pp. 8700.
- "On Student's Test" by ITO Kiyoshi. 7 pp. 8700.

Jan 1945

- "On Closely-connected Spaces which Can Represent the Projective Spaces of Paths, II" by YANO Kentaro. 9 pp. 8700.

MEDICINE

Oct 1941

- "Chemical Studies on Tomato Ring-Mosaic Virus: I. The Isolation of Crystalline Tomato Ring-Mosaic Virus Protein" by KITAGAWA Matsunosuke and AKUNE Satoru. 5 pp. 5305.

Dec 1941

- "On the Pharmacological Action of (+)-Dihydrocodeine and (+)-Dihydro-morphine" by GOTO Kakuji and TAKEBE Toraichi. 4 pp. 4410.0300

RESTRICTED

May 1942

"Pharmacological Research on 'SENSO' a Chinese Drug  
Obtained from the Desiccated Secretion of the Skin  
of Toads, VI; the influence of Choline and Arginine  
upon Urine Secretion and Blood Circulation" by  
KOBAYASHI Y. German. 3 pp. 4410.0300

Jan 1943

"Examination of Regional Differences in the Induc-  
tive Activity of the Organizer by Means of Trans-  
plantation into Ectodermal Vesicles" by OKADA Y K  
and HAMA T. 5 pp. 5305.

Feb 1943

"Suppression of Experimental Production of Liver  
Cancer by Water-Soluble Constituent of Egg Yolk"  
by UGAMI S. 4 pp. 5305

Jun 1943

"A New Method of Registering Heart Action" by  
KATSUNUMA S. and TOYOSHIMA H. German. 3 pp.  
A new method of registering vector electro-  
cardiograms. 5305

Jun 1944

"Experimental and Clinical Studies on Cepharanthine  
for Tuberculosis, Leprosy and Whooping-cough" by  
HASEGAWA S. German. 2 pp. 4410.0300

Jan 1945

"Effects of Adrenal Gland Constituents on the Fit-  
ness for High Altitude" by IWADARE Shoji. 2 pp. 5305,

# PHYSICS

Feb 1941

"Concerning the Ion Microscope" by SASAKI N and  
MITANI K. German. 2 pp. 8380.0208

"Isolation of the  $\alpha$ -components of Cytochromes and  
Their Characteristics" by YAKUSHIJI E. and OKUNUKI K.  
German. 3 pp. 4301.0700

RESTRICTED

RESTRICTED

Mar 1941

"Molecular Orientation and the Dissociation Probability of Hydrogen Molecules by means of Electron Collision" by SASAKI N. and NAKAO. German. 3 pp. 4408.0105

"On the Measurement of the Effective Collision Radii of the Potassium Atom in Various Gases" by SASAKI Nobuji and KODERA Kumasaburo. 5 pp. 8600.

Apr 1941

"Studies on the Magnetization of Iron Single Crystals, Polycrystals of Iron, Nickel and Their Alloys in Very Weak Fields" by SHIMIZU Yosomatsu. 2 pp. 8360.0700

Jun 1941

"A Theoretical Consideration on Magnetic Properties of Ferromagnetic Crystals" by HONDA Kotaro. 5 pp. 8360.0700

Jul 1941

"Sudden Commencement of Magnetic Storms and Its Probable Cause" by NAGAOKA Hantaro. 6 pp. 6204.0500

"Ultra-short Electromagnetic Waves Generated in a Vacuum Tube by Ordinary Electric Discharge" by NAGAOKA Hantaro. 6 pp. 8300.

"Heat Phenomena Accompanying the Magnetization" by HONDA Kotaro. 3 pp. 8360.

Oct 1941

"The Equilibrium Diagram of the Complete Ternary System, Copper-Antimony-Nickel: The Equilibria in the Solid State of the Ternary System" by SHIBATA Nisaku. 4 pp. 4205

"The Equilibrium Diagram of the Complete Ternary System, Copper-Antimony-Nickel: The State of Equilibria between the Liquid and Solid of the Ternary System" by SHIBATA Nisaku. 4 pp. 4205.

Dec 1941

"A Study of the Recombination Reactions of Free Atoms by the Thermal Analysis of Budde-Effect, I" by SHIDA Shoji. 6 pp. 8600.

RESTRICTED



RESTRICTED

Mar 1942

"Diurnal Variation in the Production of Ions in the Ionosphere" by NAGAOKA Hantaro. 7 pp. 8380.0208

May 1942

"The Desorption of the Adsorbed Hydrogen on a Platinum Plate by the Impact of Slow Electrons" by ISHIKAWA Yoshioki. 5 pp. 8300.

"A Theory of Magnetostriction in Single Crystals of Iron and Nickel" by HONDA Kotaro and HIRONE Tokutaro. 9 pp. 8360.0700

Jul 1942

"The Desorption of the Hydrogen Molecules Adsorbed on Platinum by Slow Electron Impact (II)" by ISHIKAWA Yoshioki. 5 pp. 8300.

"On the Total Cross Section of Carbon for Various Resonance Neutrons" by KIMURA Motoharu. 2 pp. 8600.

"On the Variation in Scattering and Absorption Cross Sections by Resonance Neutron Energy" by KIMURA Motoharu. 8 pp. 8600.

"The Formation of F<sub>1</sub> - and F<sub>2</sub> -layers of the Ionosphere" by NAGAOKA Hantaro. 8 pp. 8380.0208

Oct 1942

"On the Slow Neutron-scattering Cross Section and the Resonance Levels of Cu, As, and W" by KIMURA Motoharu, MORISHIMA Junichiro, TSUKIKAWA Katsumi. 3 pp. 8600.

"Construction of Geiger-Mueller Counters with Useful Characteristics" by MINAKAWA Osamu. 8 pp. 8600.

"Discharge Process in Geiger-Mueller Counters" by MINAKAWA Osamu. 6 pp. 8600.

Dec 1942

"On the Scattering of Thermal Neutrons by Solids, (I)" by KIMURA Motoharu and HASHIGUCHI Ryukichi. 3 pp. 8600.

"Discharge Process in Geiger-Mueller Counters, II" by MINAKAWA Osamu. 8 pp. 8600.

RESTRICTED

RESTRICTED

"Sudden Fadeout of High Frequency Electric Waves caused by  $\alpha$ -particles formed in the Uppermost Atmosphere" by NAGAOKA Hantaro. 9 pp. 8360.0208

Jan 1943

"On the Scattering of Thermal Neutrons by Solids, II, the Effect of Thermal Strain in the Diffractive Scattering of Neutrons by Quartz" by KIMURA M and HASHIGUCHI R. 3 pp. 8600.

"Discharge Process in Geiger-Mueller Counters, III" by MINAKAWA O. 7 pp. 8600.

"Minute Fluctuations in the Period of Rotation of the Triaxial Earth" by NAGAOKA H. 7 pp. 8700.

Mar 1943

"An Ion Microscope with a Magnetic Cross Field (A Combination of Microscope and Mass Spectrograph)" by SASAKI N. and MITANI K. German. 5 pp. 8380.0208

"On the Scattering of Thermal Neutrons by Solids, III, the Effect of Surface Treatment for Quartz Grain Scatterers" by KIMURA M. 4 pp. 8600.

Apr 1943

"Effects of the Solar Eclipse on Pressure Change of the Atmospheric Pressure" by KATO Y. 4 pp. 8700.

May 1943

"On the Scattering of Thermal Neutrons by Solids, IV" by KIMURA Motoharu.  
The variation in the total cross section near the transformation point of Ammonium Chloride. 2 pp. 8600.

"Discharge Process in Geiger-Mueller Counters, IV" by Minakawa Osamu  
On an after-effect of counter discharge. 6 pp. 8300.

Jun 1943

"Nuclear Pairs from Fluorine Bombarded by Protons" by KOJIMA Shoji. 4 pp. 8600.

"On the Magnetic Electron Lens of Minimum Spherical Aberration" by SUGIURA Yoshikatsu and SUZUKI Shigeo. 10 pp. 8360.0730

- 22 -

RESTRICTED

RESTRICTED

"Research on the Angular Distribution of Alpha Particles  
in the Nuclear Reaction  $F(p, \alpha)O$ " by ASANO Y. German.  
7 pp. 8600.

Jul 1943

"Desorption of  $H_2O$  Molecules Adsorbed on a Platinum  
Plate by Slow Electron Impact" by ISHIKAWA Yoshioki.  
5 pp. 8300.

"Determination of the Thickness of an Adsorbed Mole-  
cular Layer of Water" by ISHIKAWA Yoshioki. 8 pp. 8700.

"Discharge Process in Geiger-Mueller Counters, V"  
by MINAKAWA Osamu  
Pulse size and counting characteristics. 3 pp. 8600.

"A Measurement of  $\gamma$ -Ray Energies by the Anti-  
coincidence Counting Method" by NAKAGAWA Shigeo.  
4 pp. 8360.0900

Oct 1943

"On the Scattering of Thermal Neutrons by Solids, V"  
by KIMURA Motoharu and HASHIGUCHI Ryukichi  
On the neutron-scattering cross section by Ni-Fe  
Alloys (1) 6 pp. 8600.

"On the Velocity of Formation of the Ion Sheath along  
the Central Wire of a Geiger-Mueller Counter" by TORIKAI  
Yasuo and KODAMA Teisuke. 3 pp. 8380.0208

Nov 1943

"Note on the Magnetic Electron Lens of Minimum Spherical  
Aberration" by SUGIURA Yoshikatsu and SUZUKI Shigeo.  
2 pp. 8360.730

"New Study of the Polar Motion Based on the Luni-solar  
Actions (2d Paper)" by KIMURA Hisashi. 5 pp. 8700.

"Superposition of Various Causes of Image Confusions,  
Regarding the Resolving Power of Electron Ultra-  
microscope" by SUGIURA Yoshikatsu and SUZUKI Shigeo.  
7 pp. 8360.1200

Dec 1943

"On the Phenomena of Instability in Undamped Quasi-  
harmonic Vibration, Part I" by SEZAWA Katsutada and  
UCHIDA Ikuro. 7 pp. 8700.

RESTRICTED

- "The Track of a Rotating Body Travelling near the Surface of the Water" by NASU Nobuji and SHIRAI Toshiaki. 3 pp. 8700.
- "The Radioactivity of Soils Measured by Means of a Counting Tube" by MORITA Shuji. 3 pp. 8600.
- "Construction of Geiger-Mueller Counters with Useful Characteristics, II, Effect of the Filling Gas" by MINAKAWA Osamu. 4 pp. 8600.
- "On the Relation between the Cool Summer in Northern Japan and the Average Solar Radiation Measured at the Surface of the Earth" by ARAKAWA Hidetoshi. 3 pp. 8700.
- Jan 1944
- "A Measurement of  $\gamma$ -Ray Energies by the Anticoincidence Counting Method, II" by NAKAGAWA Shigeo and SUMOTO Inosuke. 4 pp. 8600.
- Feb 1944
- "Construction of Geiger-Mueller Counters with Useful Characteristics, III" by MINAKAWA Osamu. 4 pp. 8600.
- "Normal Frequencies of n-Paraffin Molecules" by MIZUSHIMA San-ichiro and SIMANOUCHI Takehiko. 7 pp. 8600.
- "Quantum Calculation of the Bond Moments" by RI Taikai and MUROYAMA Nishio. 7 pp. 8600.
- Mar 1944
- "A Kinematic Theory of Turbulence" by ITO Kiyoshi. 3 pp. 8700.
- "On the Phenomena of Instability in Undamped Quasi-harmonic Vibration, Part II" by SEZAWA Katsutada and UCHIDA Ikuo. 5 pp. 8700.
- Apr 1944
- "On the Normal Stationary Process with No Hysteresis" by ITO Kiyoshi. 4 pp. 8700.
- May 1944
- "Discharge Process in Geiger-Mueller Counters, VI" by MINAKAWA Osamu. Time interval of 'nachentladung'. 3 pp. 8600.

RESTRICTED

"Discharge Process in Geiger-Mueller Counters, VII" by  
MINAKAWA Osamu  
Development of a discharge. 5 pp. 8600.

Jun 1944

"Discharge Process in Geiger-Mueller Counters, VIII"  
by MINAKAWA Osamu  
Extinction of a discharge. 5 pp. 8600.

"A Measurement of  $\gamma$ -Ray Energies by the Anticoincidence  
Counting Method, III" by NAKAGAWA Shigeo and SUMOTO  
Inosuke. 4 pp. 8360.0900

Jul 1944

"Discharge Process in Geiger-Mueller Counters, X" by  
MINAKAWA Osamu  
Variation of characteristics with different cases.  
2 pp. 8600.

"Discharge Process in Geiger-Mueller Counters, IX" by  
MINAKAWA Osamu  
Dead time. 4 pp. 8600.

Oct 1944

"The Electron Velocity Distribution in the Celestial  
Gaseous Assemblies in Radiative Equilibrium" by  
HAGIHARA Yusuke. 8 pp. 8600.

"On the Theory of the Optical Interaction among HeII,  
OIII and NIII Atoms in a Planetary Nebula" by HATANAKA  
Takeo. 5 pp. 8600.

Nov 1944

"On the Osculating Representation for a Dynamical System  
with Slow Variation" by HAGIHARA Yusuke  
First note. 5 pp. 8700.

"On the Osculating Representation for a Dynamical System  
with Slow Variation" by HAGIHARA Yusuke  
Second note. 5 pp. 8700.

Jan 1945

"Velocity Potential and the Kutta-Joukowski Conditions for  
Flows in Complex Continuous Regions, I" by UANO K. German.  
10 pp. 8700.

[End of "Proceedings of Imperial Academy" Abstracts]

[End of DOCUMENTS BRANCH PERIODICAL ABSTRACTS No 5]

RESTRICTED

RESTRICTED